IN THE CLAIMS

1. (Previously Presented) A method of authenticating a client, the method comprising in an authentication server:

receiving a record ID for a user, the record ID being a random record ID generated for tracking authentication data, and a one-time key generated by a third party server and encrypted with a user's public key by the server;

receiving the user's authentication data from the client;

determining if the user's authentication data matches the record ID; and

if so, decrypting the one-time key with the user's private key, and returning the

decrypted one-time key to the client.

- 2. (Previously Presented) The method of claim 1, further comprising registering the user with the authentication server, registering comprising: receiving a registration authentication data from the user; generating a random public key/private key pair for the user; generating the random record ID for the user; and associating the authentication data and the private key with the record ID.
 - 3. (Original) The method of claim 2, further comprising: sending the record ID and the public key to the user.
- 4. (Previously Presented) The method of claim 2 further comprising establishing a secure connection between the authentication server and the user, prior to receiving registration authentication data.

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- 5. (Previously Presented) The method of claim 1, wherein a web page presented by the third party server to the client prompts the user to enter the authentication data to log in to the server.
- 6. (Original) The method of claim 5, wherein the client's authentication data is automatically redirected to the authentication server.
- 7. (Original) The method of claim 1, wherein the authentication data is biometric data.
- 8. (Original) The method of claim 1, wherein the authentication data is personal data selected from among the following: a password, a smart card, and another type of authentication card.
- 9. (Previously Presented) The method of claim 1, wherein the client forwards the decrypted one-time key to the third party server, thereby authenticating the user as the owner of the private key.
- 10. (Currently Amended) A method of claim 1, further comprising discarding the received record ID after returning the one-time key to the user.
- 11. (Original) The method of claim 1, wherein the record ID and the encrypted one-time key are further encrypted using a partner key, the method further comprising decrypting the record ID and encrypted one-time key using the partner key.
- 12. (Original) The method of claim 11, wherein the partner is a symmetric key set up during registration of the partner.

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- 13. (Original) The method of claim 11, wherein the partner key is a private key of the authentication server.
- 14. (Previously Presented) A method of using an authentication server to authenticate a user to a third party server, the method comprising the third party server:

looking up a random record ID associated with the user, the random record ID used to separate the user's identity from authentication data;

generating a one-time key and encrypting the one-time key with a public key of the user, and sending the encrypted one-time key and the record ID to the user;

receiving the authentication data, the authentication data being the decrypted one-time key decrypted with the user's private key by the authentication server, such that the user does not have control of the user's private key at any time; and permitting access to the server.

- 15. (Original) The method of claim 14, comprising: determining an authentication policy associated with the user; and verifying that the authentication policy has been satisfied, prior to permitting access to the server.
- 16. (Original) The method of claim 15, wherein verifying that the authentication policy has been satisfied comprises:

determining if the server should verify additional data; and if so, requesting additional data from the user prior to generating the one-time key.

17. (Previously Presented) A third-party authentication system comprising:

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an authentication server to receive a record ID for a user, the record ID randomly generated to separate the user's identity from authentication data and a one-time key generated by a third party server and encrypted with a user's public key by the third party server;

a comparison logic in the authentication server to receive the user authentication data from the client and determine whether the user's authentication data matches the record ID; and

a decryption logic in the authentication server to decrypt the one-time key with a private key associated with the validated record ID, and to return the decrypted one-time key to the client.

18. (Previously Presented) The system of claim 17, further comprising: a policy validation logic to receive a policy from the third party server, and determine if the policy has been fulfilled; and

the decryption logic to decrypt the one-time key only if the policy has been fulfilled.

19. (Original) The system of claim 17, further comprising:

a nonce generation logic to generate a nonce, the nonce to be included with the user authentication data from the client; and

the comparison logic to verify that the user authentication data includes the appropriate nonce.

20. (Original) The system of claim 17, further comprising a client registration logic to register the user, the client registration logic comprising:

a key generation logic to generate a random public key/private key pair for the user;

a record ID generation logic to generate a random record ID for the user; and the client registration logic to associate user authentication data with the private key and the record ID.

- 21. (Original) The system of claim 18, further comprising: the interface to send the record ID and the public key to the user.
- 22. (Original) The system of claim 19, wherein the interface establish a secure connection with the user, prior to receiving registration authentication data.
- 23. (Original) The system of claim 17, wherein a web page presented by the server to the client prompts the user to enter the authentication data to log in to the server.
- 24. (Original) The system of claim 23, wherein the client's authentication data is automatically redirected to the authentication server.
- 25. (Original) The system of claim 17, wherein the authentication data is biometric data.
- 26. (Original) The system of claim 17, wherein the authentication data is personal data selected from among the following: a password, a smart card, and another type of authentication card.

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- 27. (Original) The system of claim 17, wherein the client forwards the decrypted one-time key to the server, thereby authenticating the user as the owner of the private key.
- 28. (Currently Amended) The system of claim 17, further comprising a security mechanism to discard the <u>received</u> record ID after returning the one-time key to the user.
- 29. (Original) The system of claim 17, wherein the decryption logic further decrypts the record ID and the encrypted one-time key with a partner key.
- 30. (Original) The system of claim 29, wherein the partner key is a symmetric key set up during registration of the partner.
- 31. (Original) The system of claim 29, wherein the partner key is a private key of the authentication server.

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